

FOLIO

Retiring Staff Honored



A luncheon in honor of retiring academic staff was held on Friday, 4 May. Here the Chairman of the Board of Governors, John Schlosser, makes a presentation to Grant Davy, retiring Professor of Political Science.

At a luncheon, held in Lister Hall on 4 May, the Board of Governors honored retiring members of the academic staff. Presented with engraved silver trays as a token of the University's appreciation, those people who were honored at the luncheon have a combined total of over four centuries of service to this institution.

The academic employees so honored were: Dr. Arthur J. Anderson, Professor of Pharmacy and Pharmaceutical Sciences; Dr. C. Fred Bentley, Professor of Soil Science; Dr. Brigham Y. Card, Professor of the Sociology of Education; Dr. Donald R. Clandinin, Professor of Poultry Nutrition; Dr. William G. Corns, Professor of Plant Science; Dr.

Grant R. Davy, Professor of Political Science; Professor Manoel Faucher, Professor of Romance Languages; Dr. Cyril G. Hampson, Professor of Secondary Education; Dr. Wasyl W. Hyrak, Professional Librarian; Professor Kathleen W. Klawe, Associate Professor of Economics; Dr. Benedict Korda, Professor of Economics; Dr. Zdenek Kostka, Provincial Laboratory; Dr. Gordon L. Mowat, Professor of Educational Administration; Dr. Marion Norman, Professor of English; Dr. Edna C. Press, Professor of Elementary Education; Mrs. Ivana Raletich, Professional Librarian; Dr. Donald M. Ross, Professor of Zoology; and Dr. D. Gordon Tyndall, Professor of Finance and Management Science. □

NMR Spectroscopy in Chemistry

In responding to the time honored question "What's new?", staff and graduate students in the Department of Chemistry can cite the official opening of two high-field nuclear magnetic resonance instruments on 24 May. And if the answers are tinged with pride it is understandable because the instruments, a Bruker WH-200/DS Spectrometer and a Bruker WH-400/DS Spectrometer, rank among the finest extant and because their presence allows the Department to be a leader in research involving nuclear magnetic resonance spectroscopy.

To mark the acquisition and installation of the equipment, the

Department will hold a High-Field NMR Minisymposium on 24 and 25 May. A series of lectures will be presented in V-107 of the Chemistry-Physics Complex beginning at 9 a.m. each day.

The lecturers, their topics, and starting times on 24 May are as follows: L. Hall, Department of Chemistry, University of British Columbia, "Studies of the Shape and Geometry of Oligosaccharides in Solution," 9:10 a.m.; K. Bock, Institute of Organic Chemistry, The Technical University of Denmark, "Assignment Techniques in NMR Spectroscopy Illustrated With Human



The Department of Chemistry has acquired two high-field nuclear magnetic resonance instruments, the official opening of which will take place on 24 May. Determining that all is in readiness are (standing, left to right) D. Rabenstein, G. Kotowycz, and G. Bigam. Seated is T. Nakashima.

Blood Group Determinants," 10:45 a.m.; G. Maciel, Department of Chemistry, Colorado State University, "Multinuclear NMR as a Bridge Between the Solid State and the Liquid State," 1 p.m.

The order of the day for 25 May is: D.L. Rabenstein, Department of Chemistry, University of Alberta, "The Study of Small Molecules in Intact Human Erythrocytes by ^1H NMR," 9 a.m.; I.C.P. Smith, National Research Council, Ottawa, "The States of Cell Membranes and Their Response to Stress as Seen by NMR," 10:45 a.m.; J. Markley, Department of Chemistry, Purdue University, "On the Mechanism of Serine Proteases," 1 p.m.; and B.D. Sykes, Department of Biochemistry, University of Alberta, "The Use of the Lanthanides as High Field ^1H NMR Probes for the Study of the Structure of Calcium Binding Proteins."

In addition to the lectures, scientists from throughout Western Canada will present the results

of their NMR research at a poster session.

The spectrometers were purchased with a major instrumentation grant from the National Research Council and funds from the University. The faculty who collaborated on the application to the NRC were G. Kotowycz, R.G. Cavell, D.L.J. Clive, R.U. Lemieux, J.W. Lown, D.L. Rabenstein, M.J. Robins, and J.C. Vederas. Shortly after receiving the application in October 1977, the NRC dispatched a committee to the University to gain first-hand knowledge of the Department and its affinity for NMR research. The application was approved in February 1978, and the University received a grant of \$310,000.

The Instrument Evaluation Committee was then established and two representatives of the Department travelled to Germany and Switzerland to learn more about the spectrometers. In February of this year, the spectrometers were installed in a basement room in Chemistry West. They will be used by a number of individuals in the Department and will supplement the graduate teaching and research program. In accordance with the NRC agreement, other scientists from Alberta, Saskatchewan, and Manitoba can use the spectrometers. British Columbia, incidentally, has its own NMR Centre.

The spectrometers are based on magnetic fields derived from super conducting coils; these are made from a niobium-10 alloy which has no resistance to the flow of electricity at liquid helium temperature (-269 degrees Celcius). The Bruker WH-400 is the highest-field NMR spectrometer to be produced commercially to date. Put simply, molecules that contain odd spin number atoms are placed in a large magnetic field and the nuclei absorb radiation the frequency of which is measured (the particular frequency absorbed depends on the chemical nature of the compound). The larger the magnetic field, the smaller the changes that the scientist can detect. Dr. Rabenstein, for example, is conducting a study of whole red

blood cells and the chemical processes that occur within them.

One advantage of the instrumentation is that it is under computer control. The scientist can program the computer in the evening or on a weekend and pick up the results of the experiment a day or two later. As Dr. Rabenstein says, it's not your average 9 a.m. to 5 p.m. piece of equipment. Future users, one suspects, are apt to reach the same conclusion in short order. □

Innovative Project Grants For Home Economics

The Faculty of Home Economics has been awarded an Innovative Projects Grant this year by the Learning Systems Branch of Alberta Advanced Education and Manpower. The funds, \$100,000 over a two year period, are to be used to develop demonstration learning systems for the study of Home Economics.

The project leaders are E.M. Crown, Associate Professor, E.A. Donald, Professor, and D. Kieren, Associate Professor, who represent, respectively, the textiles, nutrition, and family studies areas of Home Economics. They initiated the project because students in Home Economics classes are coming from increasingly diverse backgrounds, and the organizers felt that the students' learning needs were not being completely met by present teaching methods.

The number of students from other Faculties taking service courses from Home Economics has nearly doubled since 1970. As well, the diverse backgrounds and goals of students within Home Economics programs have increased the necessity of a flexible teaching approach. For example, the food and nutrition program has a physical/biological science base, while the family studies and clothing and textiles programs are more oriented to the social sciences. Because of the relatively small size of the Faculty, however, students in all

three programs along with those from other Faculties usually take instruction in the same class. A further reason for developing flexible learning systems is to accommodate students in outlying areas of the province. This University is the only institution in the Province which offers a university-level program in Home Economics, and the demands for services from around the province have gone beyond the point where traditional teaching methods are effective.

With the students' differing needs in mind, the project organizers hope to develop learning systems that will allow each student to pursue his or her aims within the course framework. A number of learning systems will be employed. For example, computer assisted and computer managed instruction are to be evaluated in the coming academic year. The PLATO computer system currently being tested by the University as well as micro-computers are two of the tools which may be assessed.

The project leaders hope that the systems that are developed will be portable enough to

Faculté Saint-Jean would like to express its most sincere thanks to all who contributed to make its official inauguration a success.

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Jessie Hislop, who graduates this month with an Honors baccalaureate in History has been awarded a Rhodes Scholarship. She will attend Hertford College at the University of Oxford in the fall to undertake studies in philosophy, political science, and economics. □

accommodate students in outlying areas. They also anticipate that there will be an increase in faculty awareness of the uses of new learning systems in coping with the increasing diversification in Home Economics.

Further information on the project may be obtained from Drs. Crown, Donald, or Kieren, or from Jack Scharf, the project director. The project office is in 802 General Services Building (extension 5771). □

Parliamentary Candidates Questioned

The Canadian Association of University Teachers and the Canadian Federation of Biological Societies have, for some years, collaborated in efforts to provide federal Members of Parliament with information essential to the formulation of policies with respect to universities and research in Canada. As part of this work the two organizations have devised a questionnaire for candidates in "university" ridings in the forthcoming federal election. In Edmonton, Dr. N. Madsen, past-chairman, CFBS, Dr. W. Bridger, member of Board, CFBS, both of the University of Alberta; and Dr. R. Holmberg, representing CAUT, Athabasca University, interviewed candidates in the Edmonton South and Edmonton West ridings. It was thought that members of the University community might be interested in the questions and the responses. Unfortunately, the NDP candidate for Edmonton South had not been nominated when the interviews took place.

Edmonton West: Mr. Marcel Lambert, PC, (ML); Mr. Michael MacDonald, Liberal, (MM); Mr. Ken Nixon, NDP, (KN).

Edmonton South: Mr. Alex Fallow, Liberal, (AF); Mr. Doug Roche, PC, (DR).

1. *There are many competing claims for federal government*

funds. In your opinion how high a national priority is science and technology and post-secondary education?

Post-secondary Education

ML Medium.

MM High.

KN High.

AF High.

DR Medium.

Science and Technology

ML High on selective basis.

MM High.

KN Medium.

AF High.

DR Medium.

2. *OECD statistics show Canada near the bottom of 10 western industrialized countries in its level of investment for research and development. Do you believe Canada should be applying the same fraction of her GNP to this area as European countries?*

If not, should we be doing more or less than our western European allies?

ML Should not try for some percentage as may not be meaningful. Concentrate on strength in basic research. Concentrate on major industrial processes such as Tar Sands. Research and development should not be first victim of blue pencil.

MM Research and development should go up but we are not attacking many of the basic problems because of lack of control of multinationals. i.e. R & D is often paid for, in effect, by Canadian companies but done abroad in parent companies.

KN Yes

AF Government policy is to increase research and development expenditure to 1.5% of GNP by 1983. I would be in favor of any necessary government action to encourage substantial Canadian industrial commitment to research and development.

DR I believe that Canada should work towards the goal of 2.5% of GNP set by the Senate Committee on Science Policy.

3. *About two-thirds of research funded by the Medical Research Council and the Natural Sciences and Engineering Research Council*

is currently allocated to "applied" research, and the balance to "basic" research. What portion of federally-supported research should be applied to mission-oriented research? What portion should be fundamental research? How should not ration be determined? Who should determine it?

ML No comment.

MM No comment.

KN No Comment.

AF This is difficult to answer precisely. The ratio should be based on need and ability to afford such kinds of research. Ultimately, decisions must be made by informed politicians.

DR A higher proportion should be spent on applied research than on basic research because of the need to institute changes in our industrial structure as soon as possible. The relative proportions should be determined by the federal and provincial governments, in consultation with private industry, research organizations, and universities. It should be based on the government's goals in its industrial strategy, and on the gaps in funding from other sources.

4. *How important do you feel each of the following criteria should be in determining which research projects should be supported? (High, medium, and low)*

(a) *quality of proposal as determined by experts in the field*

ML High.

MM High.

KN High.

AF High.

DR High.

(b) *degree of immediate applicability*

ML Depends on nature of proposal.

MM Medium—Priorities may change for a particular project.

KN Medium.

AF High for applied research.

DR High.

(c) *proven track record of group proposing the work*

ML Medium.

MM High.

KN Medium

AF Medium.

DR Medium.

(d) *regional balancing of economic effects of grants*

ML Low.

MM Medium.

KN Medium.

AF Medium

DR Medium.

(e) *development of high quality research institutions*

ML Low.

MM High.

KN Medium.

AF High.

DR High..

(f) *other (specify)*

(No comment)

5. *Who should determine what individual projects should be supported?*

(a) *experts in the field of the proposal (peer review)*

(b) *civil servants*

(c) *elected officials*

(d) *lay people selected from the community-at-large*

(e) *some combination of above (specify)*

ML (a) highest; (b) less; (c) no; (d) least, except on advisory council.

MM (a), (b).

KN Combination of experts, elected officials, and lay people.

AF (a); (e) Primarily experts, universities, civil servants and elected officials with an input from the lay community.

6. *According to statute, the various federal granting councils are supposed to be autonomous in large measure, but some Members of Parliament have criticized individual grants made by them, implying that Parliament should have some direct control over individual research support allocations. Is this feasible? Is this desirable?*

ML No.

MM No.

KN Autonomy but subject to review by parliament.

AF Neither feasible nor desirable.

DR Parliament should have control over research allocations in the general sense of ensuring that the money spent on them is in accordance with objectives. Individual members should be able to question specific research

projects in order to get information or draw attention to any irregularities.

7. *At the moment the federal government, under the Established Programmes Financing agreement with the provinces, pays much of the cost of provincial expenditures in health and post-secondary education.*

(a) *should this programme continue?*

(b) *should this support be a constant function of programme cost?*

(c) *if reduced, what should replace such support?*

(d) *how can quality in these areas be assured in "have-not" provinces?*

ML (a) yes—a and b have to be continued to help "have-not" provinces; (b) yes—equalize opportunity across country.

MM (a) yes; (b) no comment; (d) must ensure quality in "have-not" provinces.

KN (a) Yes, need grants to "have-not" provinces; (b) no comment.

AF (a) Yes under present taxing arrangements.

DR (A) Yes; (b) no; (c) an area of provincial jurisdiction; (d) through equalization payments.

8. *Universities and hospitals can acquire certain equipment or materials for research or teaching without paying federal sales tax or (when it is necessary to import) duty. Should these tax-supported institutions retain these exemptions? If not, how should their resources be increased to meet the massive additional costs?*

ML Yes.

MM Yes.

KN Yes.

AF Yes, although protection of developing Canadian industry may be appropriate for some items.

DR They should retain these exemptions.

9. *Canada's colleges and universities may experience a decline in enrolment of 10-15% between now and the mid-1980's at which time the enrolment should begin to rise again. Should these institutions be contracted by that*

percentage in the interval, or is the period of enrolment slump too short to contract and re-expand? If the gap is to be bridged without fast contraction and re-expansion, how should it be financed?

ML Question premise of rising enrolments, based on current elementary school enrolment.

MM Do not like to see contraction then expansion. Adopt a goal for 1985 to ensure stability.

KN Use stable financing over longer periods of time. Need review if enrolments continue to decline.

AF Measured contraction in interim, followed by expansion when and if this is justified.

DR Financing should not decline by an equivalent percentage because of certain fixed costs which are not affected by declining enrolment. Any reduction would have to be based on an analysis of population trends and the ease with which universities and colleges can contract or expand. This is a question which deserves serious consideration before an answer can be given.

10. *A first year arts student now pays between \$510-820 in tuition fees—or between 10-16% of the government's annual cost of educating him. Do you think this an appropriate ratio? If not, what is an appropriate level for college and university tuition fees? Should they increase or decrease? If they increase, should provision be made for increased student summer employment? If so, how? If fees decrease, what will be the economic impact on the institutions?*

ML Do not see any decrease as warranted.

Present percentage is reasonable. Summer employment runs into market problems.

MM Students should pay something for education, a modest rather than substantial amount.

KN Deserving students need help. Need increased summer employment.

AF No opinion.

DR Fees should be commensurate with the rising costs of university

education. To enable cash short students to continue their education, better student aid programs, and expanded summer work programs are needed. The Progressive Conservative Party policy in this area is to create a Youth Employment Service which would assist firms hiring young people and create a youth service corps.

11. *Should the federal government compensate the provinces for the extra costs or foreign students studying in the universities and colleges of that province? Should there be limits on numbers of foreign students? If so, who should set them, and with what appeal procedures? Should foreign students be allowed to take part-time or summer jobs in Canada? If not, what should they do when school is not in session?*

ML Do not advocate special foreign fees—these should be part of overall foreign aid program by federal government. Quota system should not apply. Summer jobs—yes.

MM Yes—federal compensation. Yes to limit on numbers.

Therefore, federal government should set limit in consultation with provinces.

Foreign students should be able to work.

KN Compensation, yes.

Limits, yes.

Set limits? Universities and federal government.

Summer work, yes.

AF Specific compensation by the federal government should not be provided.

Decisions on limits should be left to institutions.

Employment is not a condition agreed to by holders of student visas and should not be allowed.

DR Foreign students are a definite asset to a community and a university. Canada has a responsibility and a contribution to make to other countries, especially developing countries, by allowing foreign students to enter her educational system.

The federal government should compensate the provinces for the extra cost. A quota should be set by the Department of Employment

and Immigration, the provincial education ministries, and the universities and colleges. These quotas should be set with the best interests of the community in mind—its potential enrichment and its protection. Foreign students should be allowed to work during the summer recess.

12. *Do you support a Freedom of Information Act? Should such an act provide for independent review of denials of access (as in the US) or is ministerial review a sufficient safeguard (as in Nova Scotia)?*

ML Yes with independent review.

MM Yes with US type of review.

KN Yes, with independent review.

AF I support a Freedom of Information Act.

Ministerial review should be sufficient.

DR I support a Freedom of Information Act with an independent review of denial of access and a judicial review by the Federal Court if requested by either the applicant or the government.

13. *What sorts of information should not be made public under a Freedom of Information Act? Do you think there should be a blanket "national security" exemption? Are there classes of information which are not accessible at the moment which you feel are important to get into the public domain?*

ML Individual privacy. No blanket "national security" exemptions.

MM Individual review of types of information.

A catalogue of jurisprudence would grow up.

KN Restrictions, personal privacy, and legal procedures.

Blanket national security, no. Yes, environmental studies.

AF Obviously, there are areas such as security and national emergency, police, and legal investigations and others that are commonly considered to be inappropriate for public disclosure.

DR Exemptions in a Freedom of Information Act would be clearly outlined and include such things

as Cabinet records, internal policy advice, national defence and international relations, law enforcement and legal proceedings, privacy of individuals, and certain types of financial information. The Act would take precedence over the Official Secrets Act. Certain information which is difficult to obtain and which should be more accessible, relates to legal actions against the government, consumer protection, secret laws, and administrative policies.

14. *Should we maintain the status quo on the censorship of films, books, and magazines, or should it be changed? If so, how? Who should decide what is unreasonable? Should obscenity criteria be national in application, or can they vary from place to place?*

ML There should not be a licence to do just anything. Public advisory council is best, on provincial level.

MM Present status quo. Present provincial responsibility maintained.

No—should not be national.

KN Status quo, yes. National in application.

AF No comment.

DR This is an odd question in a survey to encourage government support of research. I am opposed to any attempts to reduce the moral standards of our society. Censorship should definitely be changed to stop the flow of pornographic material which degrades the human person. The Criminal Code should be amended to re-define obscenity as the undue exploitation of sex, crime, horror, cruelty or violence, to be determined by a judge and jury—as a representative group of the community. Sentences should be tougher.

Contrary to the Library Association of Alberta, I don't think a tighter obscenity law would erode Canadians' basic freedom of thought and expression. We should not blind ourselves to moral garbage in the name of artistic development.

15. *Are you concerned about the alleged illegal acts of various police forces, most notably the*

RCMP? Do they result from inadequacies in the law? Is civil supervision of the RCMP adequate? Should illegally obtained evidence be admissible in a Canadian court of law? Should the Security Service be part of the RCMP? Should only a judge of a high court be authorized to approve a wiretap order on security grounds? What classes of communication should be entirely confidential?

(a) lawyer-client
(b) doctor-patient (except as relates to communicable disease)
(c) clergyman-parishioner
(d) reporter-source
(e) police-informer
(f) elected official-civil servant

ML Premature until McDonald Commission has reported and been studied. Evidence not yet in. Yes to (a) and (b). No to others.

MM Yes (concerned). Not sure if result from inadequacies of law. Civil supervision has not been adequate.

Yes—Canadian court system says truth of evidence is what matters. Yes—security part of RCMP. Yes to judge having authorization for wiretap.

(a) is only one prepared to acknowledge at present time unless there are specific laws for specific examples.

KN Concerned, yes. Laws, no. Application adequate, no. Illegal evidence, no. Securities Service, no comment. Wiretap, yes. Confidential, a) to (e), yes. (f) no.

AF Yes, I am concerned about alleged illegal police activity. Yes, in some cases at least these arise from inadequacies in the law. Some changes in supervision are indicated—more disclosure to the Solicitor-General or possibly to a select all-party committee. (a) yes; (b) yes; (c) yes; (d) for unrevealed information, yes; for that which is used in a news story, no; (e), (f) no comment.

DR This question also seems to be out of place in this questionnaire. Generally, I am concerned about the illegal acts of the RCMP. I support certain broader powers for the RCMP—only on

the authority of a judge and subject to parliamentary review in the form of an annual report.

16. *What methods will be most effective in eliminating job and pay discrimination against women? If such discrimination is made illegal, who should enforce that law? Should women and men pay different life insurance premiums? Should they pay different auto insurance premiums? Should pension premiums and pay-outs be equal for women and men? How do you feel about "equal opportunity/affirmative action" programmes in the United States and in Canada?*

ML Should be no discrimination for equal qualification. Human Rights Commission has some value. Should not set up blanket laws. Outright illegalities should be enforced like any other laws. No affirmative action programme. Pension pay-outs based on paid contributions.

MM Should be no discrimination. Enforced by appropriate authority—federal or provincial. Should pay different auto rates. Pension premiums and pay-outs based on actuarial basis. In favour of equal opportunity programmes.

KN Methods, civil rights laws. Enforce, federal authorities. Life insurance, no. Auto insurance, no. Pensions, yes.

"Equal opportunity/affirmative action," not working.

AF Job performance should be the only criterion. Government jobs must be unrestricted, but regulations should not be imposed on private employers. Equal treatment of men and women is indicated for insurance, pensions, etc. One must be careful of equal opportunity programs to be sure that they do not result in reverse discrimination.

DR The federal government should set an example for the private sector through its economic programs, hiring practices, and pension review. The enforcement procedure for the "equal pay for work of equal value" provisions in the Human

Rights Act needs refinement to make it more effective. Businesses receiving federal government or crown corporation contracts should be encouraged to abide by the provisions.

Men and women should pay different life and auto insurance premiums on the basis of proven differences in life expectancy and accident rates. Men and women should have equal access to pensions. Spouses allowances should not be terminated upon the death of the pensioner. The Canada Pension Plan should be examined with a view to allowing women who work at home to contribute to and receive benefits from the Plan.

I am in favor of an affirmative action programme, which could be obtained in part by having the Advisory Council on the Status of Women report directly to Parliament so that their findings would not be ignored.

17. *Do you favour any change in the mandatory age of retirement?*

ML Elimination of favored or at least to be more severe than in US (70), keeping option to retire early.

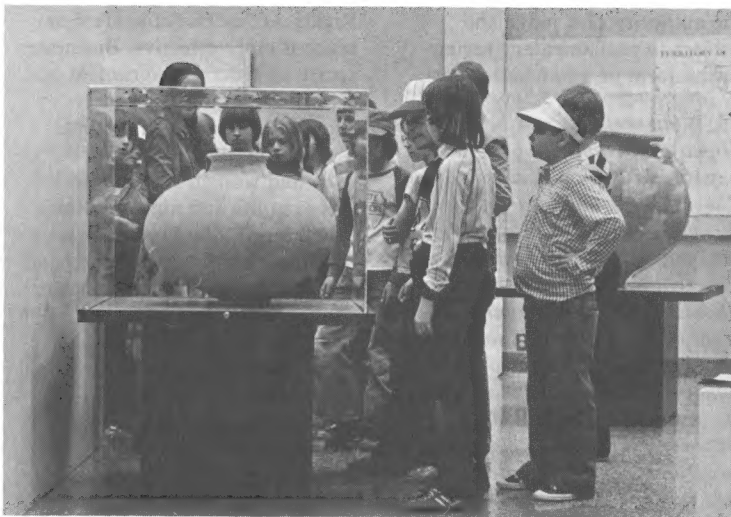
MM Not in favour of any mandatory age of retirement.

KN No comment.

AF Yes I am in favor of more flexible arrangements. This is a tough problem with no obvious simple solution.

DR I am opposed to a mandatory retirement age because of the knowledge and expertise which people over 65 could contribute to society and the difficulties some people face upon retiring. Abolition of mandatory retirement would also increase the amount of money available for pensions for those who can not work. □

Folio wishes to thank the Canadian Association of University Teachers the Canadian Federation of Biological Societies, and, in particular, Dr. N. Madsen for providing the article presented above.



Members of the Classics department are busy at the moment conducting groups of school children around the two archaeological exhibitions in the Provincial Museum. The displays record American and Canadian excavations in southern Italy. They were brought to Edmonton as a result of cooperation between various departments of The University of Alberta, the Government of Italy, and Alberta Culture. Once the exhibition closes in early July, the displays, "Ancient Crossroads" and "Villa Rustica", will tour a number of Universities in the United States and Europe.



coming events

Listings must reach the Editor by 9 a.m. on the Thursday before publication. Written notification is necessary. Listings should be sent to 423 Athabasca Hall.

Exhibitions

Latitude 53

Continuing. "Architects' Drawing Exhibition," an exhibition of seventeen Edmonton Architects' drawings.

University Art Gallery and Museum

To 31 May. "First Juried Exhibition," displays by hand-weavers, dyers, and spinners of Alberta.

To 31 May. photographs by Calgary photographer Harry S. Thomson.

To 31 May. "Sunrise Titles and Twills," an exhibition of eighteen woven hangings by American artist and weaver H. Theodore Hallman with titles by Toronto poet Kenneth G. Mills.

Provincial Museum

Continuing. "Alberta's Local Histories," an exhibition of

historical books from communities and groups across the province.

Edmonton Art Gallery

Continuing. An exhibition of constructed wood sculpture by Catherine Burgess.

Continuing. An exhibition of works by students in Edmonton Art Gallery classes.

Continuing. "Prairie Print-makers," an exhibition of works by printmakers in the Canadian West.

Continuing. An exhibition of works by Jules Olitski which explores the nature and development of the "matter paintings" of this American artist in the 1970s.

Continuing. An exhibition of works by Gordon Rice.

Edmonton Public Library

Continuing. "Spring Tide Frozen," an exhibition of watercolors by Francis Haddock. Centennial Library Gallery.

Devonian Botanic Gardens

Plants in bloom until the end of May.

Anemone, Arabis, Aremeria, Cortusa, Daphne, Dracocephalum, Epimedium, Primula, Scilla, Thermopsis, Vinca, Viscaria.

Graphics

To 19 May. An exhibition of airbrush drawings by Bill Laing and watercolors by Patricia Askren. The gallery is located at 8815b 92 Street, telephone 465-4188.

Theatre

Playwrights' Theatre

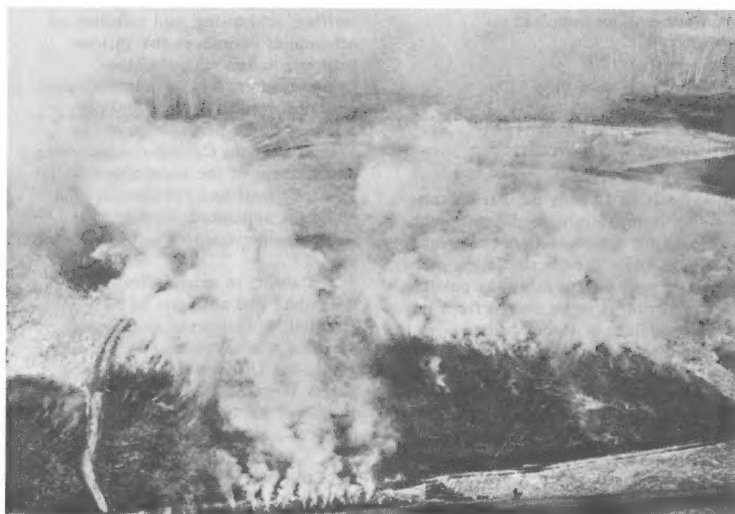
24 May. *On The Job*, a comedy by David Fennario. For ticket information and show times, telephone 436-7378.

Walterdale Playhouse

22 May. *The Man Who Came To Dinner* by George S. Kaufman and Moss Hart. For ticket information and show times, telephone 424-0121.

Northern Light Theatre

To 3 June. *Back to Beulah* by W.O. Mitchell. For ticket information and show times, telephone 429-3110.



Fires of Spring is a film produced by Henry T. Lewis, Professor and former Chairman of Anthropology. It will be broadcast by CFRN Television (Channel 3, Cable 2) on Sunday, 20 May, at 12 noon.

In *Fires of Spring*, Dr. Lewis presents the viewer with a detailed evaluation of the "fire technology" used by northern Alberta native peoples. Spring burning, as it turns out, is highly beneficial both to man and to his environment. The improvement in the fertility of the soil and the abundance of

game is a well attested result of practising controlled fire ecology.

The film to be aired on Sunday, 20 May, was funded by the Boreal Institute for Northern Studies and was made by the Department of Technical Services, Motion Picture Services. It was edited for television and is to be broadcast as part of a University-CFRN cooperative project, which has also been responsible for productions on subjects as diverse as sex education, stuttering, and aggression in minor league hockey. □

SUB Theatre

17 May, Thursday, 8 p.m.
Young Ambassadors, a variety show presented by the Church of Jesus Christ of Latter Day Saints. Tickets available from church members; \$4.

Films

Edmonton Public Library
19, 20 May. 2 p.m. *Story of Robin Hood*. Free admission.

Provincial Museum

16 May, Wednesday, 7 p.m.
Why Shoot The Teacher. Free admission.
19 May, Saturday, 2 p.m.
Dreamland, Campsites Holiday, Alberta Sunshine. Free admission.
20 May, Sunday, 4 p.m. and 7 p.m. *Adam's Rib*. Free admission.
21 May, Monday, 2 p.m.; 4:30

p.m. and 7 p.m. *Jubilee Celebrations, Yellow Submarine*. Free admission.

23 May, Wednesday, 7 p.m.
The Sting. Free admission.

Music

SUB Theatre

18 May, Friday, 9:30 a.m.
Les Com Pals presents Jagjitsingh in concert. For further information call 432-1449.

Edmonton Public Library

20 May, Sunday, 2:30 p.m.
Trio Dalverna (oboe; violin/viola; piano).

Latitude 53

20 May, Sunday, 2:30 p.m.
Chamber Music Concert with the Edmonton New Music Ensemble (works by M. Constant, A.

Creaghan, K. Fukushima, R. Hartwell, A. Lanza and J. Shearer). For information, call 423-3126.

Jubilee Auditorium

18 May, Friday, 7:30 p.m.
Ukrainian Dance Festival. For information, call 422-4255.

19 May, Saturday, 8 p.m.
Dr. Hook. Tickets available at Mikes.

20 May, Sunday, 9 p.m.
Joan Armatrading. Tickets available at Mikes.

21 May, Monday, 8:30 p.m.
Donna Fargo. Tickets available at Mikes.

Lectures and Seminars

Technocracy Lecture

21 May, Monday, 8 p.m. *Design for America's Future—the Technocracy*, an illustrated lecture. Rocking Chair Lounge, HUB Mall.

Environmental Engineering

17 May. 11 a.m. "Heavy Metals in Waste Water Treatment Systems," with speaker R. Perry, Chairman of Public Health and Water Resources Engineering, University of London. 331 Civil Electrical Engineering Building.

Earth Food Distributors

22 May, Tuesday, 6:45 p.m.
A lecture by herbalist Dr. Christopher.

John Janzen Nature Centre

26 May, Saturday, 10 a.m. to 4 p.m. Learn how to make your own "natural jewelry" with instructor Linda McPhee. Fee. \$9.

Children

Centennial Library

19, 20 May. 2 p.m. *Story of Robin Hood*.

Valley Zoo

Continuing. The 1979 season opened 12 May, Saturday, and will be open daily from 10 a.m. to 6 p.m. New this year is the "Birds of Prey" aviary.

French Education

From 2 to 13 July, an independent

course in French from 9:30 a.m. to 11:30 a.m. Fee of \$2 per hour. For more information, telephone Mrs. Finotti, 466-7960.

Registrations are now being accepted for *La Petite Ecole*, an immersion French program for pre-schoolers aged two to five years. Telephone Hilda Ward at 437-3467 for more information.

Creative Drama

From 3 to 13 July, between 11 a.m. and 12:30 p.m., and from 16 to 27 July, between 3 p.m. and 4:30 p.m., a creative drama class for children aged six to nine. No fee. To register, telephone T. Craig at 432-5870 or 425-8139.

service
information

Notices

GFC Appointment

A vacancy exists on the General Faculties Council for one member of the non-academic staff who is not a member of NASA. Interested persons are invited to submit their names in writing with a brief biographical note to Secretary, General Faculties Council, 3-3 University Hall. If necessary an election will be held by GFC.

Safety in the Biological Laboratory

The Bio-Safety Committee, the Occupational Health, Safety, Fire and Emergency Measures Committee, and the Radiation Control Committee are working together to present the inaugural series of Bio-Safety Seminars. The forthcoming seminar is aimed at those individuals who are involved in work with biological materials. Much of the content of the program, however, promises to be beneficial to all interested individuals.

The course will include the following topics: techniques for laboratory safety; recombinant DNA technology; chemical hazards; radiation control; MRC guidelines; laminar flow; emergency procedures in the laboratory; waste disposal, maintenance procedures; and a bio-safety workshop.

Enrolment is limited. Preference will be given to persons working with biological materials. Other interested individuals, however, should apply. For further information telephone 432-2310.

Singles on Campus Social Evening

On 1 June at 8 p.m. a social evening for singles on campus will be held at 102 Primrose Gardens, 178 Street and 86 Avenue. For information, please telephone Audrey Brooks at 487-9195 evenings.

Format of Submissions to Academic Development Committee

1. *Title*—a short title describing the proposal.
2. *Objectives*—a brief statement outlining the aims and objectives of the proposal.
3. *Justification*—a succinct statement justifying the high priority given the proposal by its proposers—the high priority may be based on academic considerations alone, or as a constructive response to public and/or community needs as perceived by the sponsors of the submission.
4. *Supporting Evidence*—this should be incorporated into the main body of the proposal in précis form, with supporting documentation provided as appendices. The evidence should consist of references to or apt quotations from relevant University policy statements or decisions reached by GFC; Board of Governors; Faculty Councils. Significant statements by public figures, government spokesmen, professional groups, and lay organizations that relate to the proposal should also be annotated.
5. *Consultations*—Prior consultations should be held by the proposers with unit(s) which may be affected by the proposal. All prior consultations by the proposers with individual academics, academic unit(s) (divisions, departments, Faculties, etc.); other academic service units (Library, Food Services, etc.); outside agencies (governments, professional groups, lay organizations), affected by or involved with the proposal must be documented.
6. *Operating Costs*—all submissions must include details of operating costs—start-up, annual, total operating costs if a term project. The proposers must include in their submission the source(s) of potential funding—new funds from provincial/federal governments; private sources; endowments; and the feasibility of re-allocation of funds from within the budget of the proposers' academic unit(s).
7. *Space Needs, Capital and Operating Costs*

7.1 The proposer(s) must indicate space requirements for the new project, whether such space may be made by alteration or re-distribution of existing space within the jurisdiction of the proposer(s) and the academic units involved.

7.1.2 Costs of the alterations described in 7.1.

7.2 If new space is required, the proposer(s) must indicate whether such space will necessitate (a) new University space; (b) off-campus facilities; (c) rental costs; (d) capital costs for new equipment.

8. *Time Table*—The proposer(s) must indicate when the proposal is intended to be implemented taking into consideration the time necessary to ensure that all the administrative steps required have been satisfactorily completed.

9. *Evaluation*

9.1 Submissions must include the methods to be used for evaluation of the proposal—whenever possible the methods of evaluation proposed should be capable of objective and/or external assessment. It should be made clear to the proposer(s) that initial acceptance of a proposal does not ensure its ongoing support—ongoing support will be dependent on satisfactory evaluation/assessment. Proposals will generally be made on a term basis with the option of extension depending upon a satisfactory evaluation/assessment.

10. *Summary*

10.1 All submissions to Academic Development Committee should follow a required format consisting of eight distinct sections: (1) title; (2) objectives; (3) justification; (4) supporting evidence; (5) consultations; (6) operating costs; (7) space needs and operating and capital costs; (8) time table; and (9) evaluation.

Amendment to the Code of Student Behaviour

The following information has been received from M.M. McCaughan, Secretary to GFC Disciplinary, Law and Order Procedures:

Part II: *Offences*

(5) The following activities or attempts thereof or participation therein are prohibited:

- (1)
- (2)
- (3)
- (4)

Add:

(5) Unauthorized use of University property or property within the University, or use of such property in an unauthorized manner.

Add:

(16) 16.1

16.2 A University official or employee acting in the course of his duty may require any person to identify himself where:

- (a) he finds him committing an offence or
- (b) he has reasonable and probable grounds to believe that an offence has been committed or is about to be committed.

Part III: *Penalties*

(1)

Add these new sections:

(2) In a case of breach of sections . . . 5(5), 16.1, 16.2 . . . the following

sanctions may be imposed:

- a) expulsion
- b) suspension
- c) fine of not more than \$200
- d) reprimand.

Closure of Periodicals Reading Room

Effective from 10 May the Periodicals Reading Room, Rutherford South, will be closed for approximately two weeks. This is to allow for the relocation of materials with as few delays as possible. The collection is to be moved from its present location in Room 1-01 to Room 2-01, which was formerly the main reading hall.

The move is part of the Library's plan to make greater use of existing space in the Rutherford South Library to accommodate expansion of the Library Collection.

Non-Credit Courses

Distance Education

Beginning: 24 May. *Duration:* Two days.
Fee: \$80 (including lunch both days).
Telephone: 432-5055 or 432-3116.

Summer School in Mineral Processing

Beginning: 14 June. *Duration:* 13 days.
The course is broken into three parts:
Part A, 14 to 16 June, Fee—\$200;
Part B, 18 to 22 June, Fee—\$300;
Part C, 25 to 29 June, Fee—\$300.
Participants may take all or any combination of A, B, or C. Fee for the full course is \$700. *Telephone:* 432-5038.

Surplus Equipment

The equipment listed below has been declared surplus. For further information about the purchase of this equipment or the disposal of any of your department's surplus equipment, consult Bonnie O'Dwyer or Roy Bennet, telephone 432-3208.

1 Specialist Microfiche Reader.

For further information, please telephone Jen Penny at 432-3977.

35 mm slide carrying cases—holds 150 glass mounted slides. Telephone Carol Crawford, 432-4640.

One 14' Skipper Trailer. Telephone Joyce Kurie, Botany, 432-5631.

Positions Vacant

On-Campus

Administrative/Professional Officer

Applications are invited for the position of Administrative/Professional Officer in Special Sessions. The incumbent assists the Director in the planning, organization and administration of the Spring Session, Summer Session, and the Evening Credit Program (Off-Campus). Responsibilities will include

staffing, scheduling, and selection of off-campus courses in the various sessions; liaison with Faculties, Departments and other administrative units involved in Special Sessions; assisting in the preparation of the Special Sessions Calendar; supervising appointment of the approximately 500 academic staff and 250 instructional assistants appointed throughout the session; supervision of staff; budgeting; etc.

The ability to relate effectively to the public and all levels of staff is essential. A University degree and previous administrative experience within the University highly desirable. Salary range \$15,775 to \$23,665. Interested applicants should submit a letter of application and résumé to K.L. Carswell, Director, Special Sessions, 4-107 Education II, The University of Alberta, T6G 2G5.

Librarian

The Legal Resource Centre of the Faculty of Extension has an opening for a Librarian, to manage a multimedia Law for the Layman Collection. Duties include supervision of the cataloguing, classification, and processing of new materials and some reference, research, and public service activity.

Applicants must possess a graduate degree in library science from an accredited Canadian University. Some experience in cataloguing or working in a law library would be an asset.

Salary range is \$14,333-\$18,529 per annum (under review) with the starting salary commensurate with education and experience. A comprehensive employee benefits package is included.

Interested persons please apply by comprehensive résumé by 31 May 1979 to:
Sandra Garvie, Librarian,
Legal Resource Centre,
Faculty of Extension,
231 Corbett Hall,
University of Alberta
Edmonton, Alberta,
T6G 2G4

Purchasing Manager

Required for the Purchasing Department to be responsible for an annual expenditure of \$25 - \$30,000,000 and a staff of approximately 25 people. The functions include purchasing, expediting, invoice processing, customs processing, traffic, and Federal Sales Tax claims. The University is currently doing a feasibility study with respect to computer assistance for this Division.

Applicants should have a Professional Purchaser designation (or at least substantial completion of the PMAC Professional Development Program), formal management training, and a number of years experience in purchasing at a senior level. Experience with computer applications and/or systems design would be a definite asset.

Salary range is \$21,700 - \$29,300 (currently under review) with starting salary commensurate with training and experience. The University offers a comprehensive employee benefits

The University of Alberta invites applications for the position of Registrar

The Registrar, with a staff of about 70, is responsible for the admissions, registration and student records of the University (full-time enrolment of about 18,000); serves on the senior academic councils of the University; is responsible for the preparation and publication of University calendars and timetables; and works with Faculties to inform prospective students about the University and its programs. The Registrar's Office is developing a computerized system of student records (in cooperation with the Office of Administrative Systems).

The University of Alberta is an equal opportunity employer.

Salary commensurate with qualifications and experience. Normal faculty benefits will apply.

Deadline for applications is 15 June, 1979. Date of appointment will be 1 July 1979 or later by agreement with appointee.

Send résumé, with names and addresses of three referees to:

Dr. Willard Allen
3-12 University Hall
University of Alberta
Edmonton, Alberta
T6G 2J9

package including a removal allowance.

Interested persons please apply by comprehensive résumé by 28 May, 1979 to:
The University of Alberta
Personnel Services and Staff Relations,
3rd Floor, Students' Union Building,
114 Street and 89 Avenue,
Edmonton, Alberta,
T6G 2J7

Conferences Customer Services Officer

The Department of Housing and Food Services is responsible for a large and complex student services operation which is complemented by a conference and catering service designed to maximize utilization of the facilities.

The incumbent will be responsible to the Director of Housing and Food Services for the co-ordination of special functions as well as to expand the conference and catering business by recommending and implementing strategy to promote the available services and facilities.

Qualified applicants should have a minimum of three years progressively responsible experience in the conference area. A background in sales or public relations would be an asset.

Please submit a comprehensive résumé, including salary expectations to: The Personnel Officer,
Housing and Food Services,
The University of Alberta,
44 Lister Hall,
Edmonton, Alberta
T6G 2H6

Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 11 May.

Library Clerk I (\$695-\$772)—Extension Library
Clerk Typist II (\$695-\$803)—Business Administration and Commerce; Provincial Laboratory; Educational Media—Extension
Clerk Steno II (\$695-\$830)—Pharmacology; History; Elementary Education; Office of the Comptroller; Extension; Athletic Services
Clerk Typist III (\$748-\$895)—Administrative Services; Provincial Lab
Data Entry Operator I/II (\$772-\$1,009) Rural Economy
Data Entry Operator I (\$772-\$929)—Bookstore
Clerk Steno III (\$772-\$929)—Sociology (two positions); Rural Economy; Educational Psychology; Civil Engineering; Administrative Services; Obstetrics and Gynaecology; Education Clinical Services; Physics; Psychology; Mineral Engineering; Law; Secretariat; Faculté Saint-Jean Field Services—Education (term)
Programmable Typewriter Operator II (\$803-\$969)—Personnel Services
Admission Records Trainee (\$803-\$969)—Office of the Registrar (three

positions)
Medical Steno (\$830-\$1,009)—Psychiatry
Accounts Clerk (\$830-\$1,009)—Office of the Comptroller
Secretary (\$431.50-\$526.50, half-time)—Secretariat
Secretary (\$863-\$1,053)—Occupational Therapy; Dental Clinical Sciences; Physical Plant; Radiation Control Committee; Senate; Dentistry - Oral Biology; Immunology; Dentistry
Secretary (\$915-\$1,116, trust)—Theoretical Physics Institute
Administrative Clerk (\$895-\$1,096)—Bookstore; Chemistry; Dean of Medicine
Departmental Secretary (\$1,027-\$1,264, term, trust)—Physics
Senior Accounts Clerk (\$1,009-\$1,243)—Office of the Comptroller
Computer Assistant I (\$695-\$830)—Computing Services (four positions)
Laboratory Assistant II (\$721-\$863)—Provincial Laboratory
Building Services Worker II (\$803-\$969)—Housing and Food Services
Technical Assistant (\$830-\$1,009)—Pharmacology
Instrument Technician I/II (\$929-\$1,298)—Chemical Engineering
Chemical Technician I (\$949-\$1,162, trust)—Animal Science
Technician I (Medical Lab Technician) (\$949-\$1,162, trust)—Medicine
Assistant Buyer (\$969-\$1,192)—Purchasing
Electronics Technician I (\$985-\$1,212, trust) Physics (two positions)
Public Relations/Publications Assistant II (\$1,009-\$1,243)—Community Relations
Security Officer I (\$1,009-\$1,243)—Campus Security (two positions)
Electron Microscope Technician II (\$1,009-\$1,243)—Pathology
Chemical Technician II (\$1,009-\$1,243)—Soil Sciences
Technician II (\$1,009-\$1,243)—Home Economics
Technologist I/II (Engineering) (\$1,009-\$1,415)—Radiation Research Committee
Bacteriology Technologist I/II (\$535-\$750 trust, half-time)—Medical Bacteriology
Animal Technician II (\$1,053-\$1,298)—Health Sciences Large Animal Program
Electronics Technician II/III (\$1,053-\$1,476)—Technical Services; Physics
Programmer/Analyst I (\$1,070-\$1,318, trust)—RS McLaughlin Examination and Research Centre
Biology Technician II (\$1,070-\$1,318, 50% trust)—Zoology
Technician II (\$1,070-\$1,318, trust, term)—Pediatrics
Technologist I (Bio Sciences) (\$1,070-\$1,318, trust)—Immunology
Biology Technologist I (\$1,070-\$1,318, term, trust)—Genetics
Biology Technician III (\$1,143-\$1,415)—Genetics
Machinist Technician II/III (\$1,143-\$1,611)—Technical Services
Programmer/Analyst II/III (\$1,192-\$1,759)—Office of Administrative Systems
Senior Admissions/Records Coordinator

I—(\$1,243-\$1,543)—Office of the Registrar
Technologist III (BSc General) (\$1,298-\$1,611)—Animal Science
Technician IV (Farm Equipment) (\$1,298-\$1,611)—Plant Science
Programmer/Analyst III (\$1,415-\$1,759)—Office of Administrative Systems
Controls Fitter (\$1,543-\$1,923)—Physical Plant
Programmer/Analyst IV (\$1,682-\$2,104)—Computing Services
Specialist Technician (\$1,708-\$2,131, trust)—Physics

The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board in the Cameron Library, Room 512, should be consulted for further information as to availability and position requirements.

Library Clerk III (\$748-\$895)—Inter-Library Loans; Periodical Reading Room

Advertisements

All advertisements and cancellations must be received by 9 a.m. on the Thursday one week before publication. The cost is 20 cents per word for the first week and 10 cents per word for subsequent weeks ordered before the next deadline. Advertisements must be paid for in advance, and are accepted at the discretion of the Editor. We regret that no advertisements can be taken over the telephone. For order forms or further information, telephone 432-2325.

Accommodations available

For sale by Owner. In Wye Knott Village 13 miles east 2½ miles south of Sherwood Park. Three bedroom house with two fireplaces, double garage. 3½ acres. Well treed, in quiet subdivision. Ph. 469-1708. Owner will finance.
For rent—Two blocks south of W.W. Cross, fully furnished, 1,600 sq. ft., three bedroom bungalow. Three bathrooms, new kitchen, double garage. Available for one year from 1 August. Rent \$650 monthly. 436-3770.
For rent—2 July - 18 August. Large luxury home. Short direct route, University. \$850 (includes utilities) 436-1285.
For sale—By owner. Millwoods. New lovely four split, 1,685 sq. ft., carpeted throughout. Basement 80% completed. Cedar siding, large lot, \$77,900 firm. 462-7380, 3 - 8 p.m.
For sale—Dinner parties will be a delight in this 15½ foot long dining room. Custom built two-storey home with fantastic built-ins in large children's bedrooms. Well located in Blue Quill Phase I within walking distance of Derrick Golf Club. \$169,900. Call Deanna Larson res. 481-0936 or bus. 436-5250. Spencer Real Estate.
For sale—By owner. North Windsor Park, 11712 Edinboro Road, 1,300 sq. ft. custom built hilltop bungalow. Large lot with many mature trees.

- L shaped living room and dining room with fireplace and city view. Finished basement. One block to University. July possession. \$142,900. Phone 433-7458 for appointment. No agents.
- For sale—New executive custom built 2,000 sq. ft. home in prestigious Belgravia. Features sunken living room, main floor utility room, skylights and much more. Call Goetz at Crescent Realty. 439-0035, 436-1134.
- For rent—Furnished bi-level in Greenfield. Three bedrooms, two bathrooms, family room. Direct buses to University and city centre. Close to all schools. Available for one year from 1 August, 1979 at \$500 monthly. 434-0067.
- For rent—Fully furnished four bedroom sabbatical home, 1 year, 1 July. \$600 monthly. 435-0902, 432-4129.
- For sale—Lynnwood, comfortable three bedroom home. Attractively finished lower level, including fourth bedroom. Double garage. Nicely landscaped. Minutes from University. Ideal family home. 484-6149.
- For sale—Sherwood Park. By owner. Three bedrooms, two full baths, new carpet, garage, nice lot. Near school, buses. 1,260 sq. ft. 464-1579 evenings.
- For sale—Glenora. Attractive semi-bungalow. Separate dining room, new kitchen, three bedrooms. Resi Richter. Weber Bros. 483-9432, 455-4135.
- For sale—New. Westend. Three/four bedroom homes with family room. Resi Richter. Weber Bros. 483-9432, 455-4135.
- For rent—Three bedroom, completely furnished house. Easy access University. 28 May - 20 July, (negotiable). Cheap in exchange for maintenance. Jeff, Cathy. 454-4668, 432-4103.
- For rent—Fully equipped house, central, one month starting July. \$400. 455-9931 evenings.
- For rent—July - August. Three bedroom condominium, southside, furnished. All utilities. \$450 monthly. 436-5458.
- For sale—Four bedroom bungalow. Lansdowne nicely developed basement. Immaculate. \$118,000. Potter Realty Co. Ltd. Joyce Byrne 436-3050, 435-6064.
- For sale—Blue Quill condominium, 20 minutes from University, one year old, three bedrooms, 1½ bathrooms, carpet throughout. \$56,500 by owner, no agents, day 432-5285, night 436-5982.
- For sale—Spacious four level split 1,900 sq. ft. Ermineskin. Double front drive garage. Large fenced back yard, paved lane. Vacant. Available for immediate possession. Price \$129,900. Watch for weekend open houses. 10524 - 32 Ave. Call Faye Lund. Block Bros. 436-4240, 436-5355.
- For sale—Bungalow in Windsor Park at 8932 116 St. \$127,000. For appointment call 439-4207.
- For sale—Three bedroom bungalow. Basement finished—two bedrooms, living room, kitchen, bath, eight appliances. Newly carpeted. Painted. Fenced back yard, mature evergreens, plum, apple, willow, strawberries. 6404 110 St. 435-8422, 955-2717.
- For sale. Pleasantview. Appealing three bedroom custom bungalow with fireplace. Fantastic double lot with many mature trees. Kitchen has cupboard space galore, plus a bright sunny breakfast nook. Two full baths. Minutes from the University. Priced to sell—\$96,900. Call Linda Gregory 432-7142 or Spencer Real Estate 436-5250.
- For rent. Exceptionally furnished one bedroom apartment. Fully carpeted, background music, paved parking. Available 1 June and 1 September. \$310 monthly. 433-6969, 488-9151.
- Caretaker, Apartment 16, 10839 University Avenue.
- For sale—Offers wanted. Well kept property in University area. Over 1,700 sq. ft. Four bedrooms, two full baths, dining room, lovely yard, fruit trees, double garage. Close to schools and shopping, excellent bus service. Call Mrs. Kruper. Custom Real Estate, 433-1468, 434-3684.
- For rent—One bedroom apartment to sublet June, July. Near University. \$200 per month. Call 433-7935.
- Accommodation to sublet 11 June - 1 Sept. Large furnished one bedroom apartment. Oliver district. References required. 429-1232, 488-4914.
- For sale—Brander Gardens. Open-beam bungalow, beauty (approximately 1,504 sq. ft.) built by Ace Lange. Quiet prestigious location. Priced to sell at \$134,500. So, please call now. Deanna Larson 481-0936 or Spencer Real Estate 436-5250.
- For sale—Petrolia—Open beam bungalow with very large living and dining room, with open-beam cedar ceiling. Fireplace in L.R., large family sized kitchen, 1½ baths, professionally developed basement, attached garage with large pie-shaped lot with rear lane. Priced at only \$104,900. To view please call Pat Anholt 436-1559 or Shirley Way-Nee 435-6032. Potter Realty office 436-3050.
- For rent—Room to male student (non-smoker) in quiet S.W. home near ravine. 435-2253 after 6:30.
- For rent—Fully furnished house near University, very reasonable to reliable renter for June-August. 436-0571.
- For sale—Aspen Gardens. A most unusual split level. Spacious living room with 12' ceiling, brick fireplace and extensive wood panelling, separate dining room, four bedrooms and den, attached garage. Large lot with beautiful trees. Just reduced to only \$115,900. See it immediately by calling Shirley Way-Nee 435-6032 or Pat Anholt 436-1559. Potter Realty office 436-3050.
- For rent—House in London (U.K.). Suburb. (30 mins. city centre). Fully furnished three bedrooms, garden. Mid September/end April. 474-0578, 432-3008.
- For sale—Belgravia. Large three bedroom bungalow. Separate dining room, fireplace, eat-in kitchen. Basement completely developed. Drive by 11802 73 Ave. then call to view. Dorothy Hamilton 439-7371 or 436-8509. Kellough Realty.
- For rent—Furnished three bedroom house. Additional office and family room. Double garage. Near Misericordia Hospital. One bus to University. \$600 monthly. Call 484-9166.
- For sale—South exposure. Panoramic view of river valley. Two bedroom condominium in "The Saskatchewan". Convenient to city centre. Five minutes to University. Well-equipped kitchen, upgraded carpets. Underground parking. Call Pat von Borstel. Spencer Real Estate, bus. 436-5250, res. 437-6540.
- For sale—Immaculate, two bedroom condominium in "The Saskatchewan." All new kitchen, underground parking. Fine view of city and river valley. Five minutes to University and city centre. Call Pat von Borstel. Spencer Real Estate bus. 436-5250, res. 437-6540.
- For rent—Home in Greenfield, furnished, 2½ baths. Excellent schools, direct University bus. 1 August 1979 - 31 July 1980. \$525. 535-8696.
- For rent—Four bedroom furnished house Belgravia. Large yard. Air-conditioned study-bedroom. Walk to University. 1 July - 18 August, \$100/week. \$100 damage deposit. References please. W.D. Hrychuk, 11618 76 Avenue. 436-0306.
- For sale—West Belgravia over 1,200 sq. ft. cedar shake bungalow. Totally new farm size centre island kitchen. Extensively renovated throughout. Completely developed lower area. Fireplace, two furnaces, large garage, carport and trailer pad. 11821 74 Ave. \$127,000. 437-6639.
- For sale—Without a doubt one of the most interesting cedar homes in the University area. Super kitchen with oak cabinets, Jenn Air barbecue, counter top stove, plus five other appliances. Family room fireplace. Main floor master bedroom, 2½ baths. June Hill 433-2396, Peter Clary 436-0485. Spencer Real Estate Ltd.
- For rent—Office space, shop or beauty salon. 500 sq. ft. attractive location. Concord Tower. 11147 82 Ave. Ground floor opposite Corbett Hall and College Plaza. Separate entrance. Ample parking facilities. All utilities. For appointment contact Mr. Andrews 433-1676.
- For rent—Blue Quill executive house, three bedroom, sabbatical. \$600 monthly. 436-0625 evenings.
- For rent—This summer, home in S.W. Edmonton. 434-7259.
- For sale—We are pleased to offer three large (2,350 - 2,400) sq. ft. air conditioned condominiums in a small development. Ideally located at the corner of Saskatchewan Drive and 107 St., which is easy walking distance to the University. Prices of \$168,500, \$170,000 and \$185,000 include full range of appliances. For an appointment to view please call Evan Potter or Peggy Barr 436-3050, evenings - 435-1510 or 436-2433. Potter Realty Co. Ltd.
- For rent—19 June - 30 August. Three bedroom house. 15 minutes University. McKernan. \$300. 434-9140.
- For sale—Rio Terrace. Attractive three bedroom bungalow with fireplace, attached garage, professionally landscaped garden. Finished basement with bedroom and spacious rumpus room. Quiet location, close to schools, University 15 minutes. Asking \$110,000. 487-7929.
- For rent—7803 116 St. Three bedroom, side by side duplex. Three bathrooms, garage. Near University. Available 1 July. \$500 monthly. 437-6550, 424-2141.
- For sale—Walk to University from this immaculate two bedroom bungalow. Panelled rumpus room, wet bar. Extra bedroom or den down. Tastefully decorated throughout. Available 1 Sept. 439-1844 after 6 p.m.
- For sale—Attention professors! Quiet southside location. Easy access to University and downtown. Fantastic floor plan! Four bedrooms. Central vacuum. Attractively landscaped. All this and much more for \$133,500. Spencer Real Estate. Regina Machinski bus. 436-5250, res. 465-5163.
- For sale—Farm. Vilna. 35 miles from proposed Imperial Oil development. 158 acres. Top farmland, pasture, house, buildings, granaries, etc. \$58,900. Reina Proudfoot. Royal Trust. 435-4869, 436-2556.
- For sale—University area. Bungalow. Two bedrooms, renovated kitchen, dining room, large RC-1 lot on quiet street. Single garage, basement bedroom. Reina Proudfoot. Royal Trust. 435-4869, 436-2556.
- For sale—South Garneau. Large revenue home in excellent condition. Quiet street. Six units. Revenue \$906 monthly. Live-in manager. Reina Proudfoot. Royal Trust. 435-4869, 436-2556.
- For sale—Close to University. 870 sq. ft. bungalow. Bright and spacious rooms, attractively decorated. Main floor - two bedrooms, living room, kitchen and bath. Basement - one bedroom, family room, hobbies room, laundry. Garage. Quiet location. Financing flexible. Carpets included in price of \$69,000. Call owner 436-3975.

Accommodations wanted

- Wanted house for rent—Newly appointed faculty member. Family with three children. Starting June or July. Phone Dr. Lee 432-6201.
- Visiting professor wishes to rent furnished house near University. 1 July 1979 - 31 December 1979. 432-5729, 435-5770.
- Furnished apartment close to University required by visiting professor June, July, and August. 432-8017, 463-2420.
- Rent—With extensive storage. Responsible abstainers. University. 432-7636.
- Accommodations required for couple preferably in University area for one year commencing 1 July. 1-835-2704.
- Wanted to rent—2/3 bedroom house June or later. Responsible professional

couple with child and dog will provide excellent upkeep. 469-8063. Wanted for physician from New Zealand. 2/3 bedroom accommodation. Short walking distance University Hospital. Preferably furnished. Plans remain Edmonton 2 years. 439-1814, 432-6352.

Furnished house required now for visiting British scientist and family until January 1980. Dr. Ashworth. 436-9150, 434-5058.

Wanted two bedroom house near University. Occupancy 1 July 1979. Furnished or unfurnished. Reliable couple. References if required. Please call 432-6279.

Automobiles and accessories

For sale—By owner. VW camper 1975. 25,000 miles. Pop up roof. Fridge, stove, sink, two double bunks, radio. \$7,500 or offers. Days 432-6641. Evenings 436-4961.

1971 Volkswagen bus, camperized, new engine, new clutch; \$1,750 o.n.o. 487-3054 days, 436-1412 evenings.

For sale—1974 Plymouth Scamp. Two door, 318V8 engine, 44,000 miles, \$1,950. Owner going overseas. Phone 436-5991.

1969 VW Westphalia camper. Well kept. \$2,650. David 436-5707, 467-1989.

Goods and services

17' cabin sailboat. Excellent condition,

well equipped with trailer. \$3,900. 436-2345.

Experienced typist. Variety of type styles, symbols. Quality work. 435-4407; 435-5006.

Will do top quality typing. Phone 455-6398.

Edmonton YMCA Chito-Ryu Karate Club. Phone 455-2139.

Expert typing—theses, etc. 455-0641.

Ex-secretary will type reports, theses, etc., at home. IBM correcting Selectric. 464-4887.

Experienced technical typist with IBM self-correcting selectric, will type manuscripts and theses. Phone Doreen 469-9289.

Dressmaking, alterations, bridesmaids, bridal gowns. 462-0402 after 2 p.m.

Electric piano for sale. Full 88 notes. Stereo outputs and headphones.

Unfinished cabinet but beautiful sound. \$1,200. 436-1879 after 5 p.m.

Custom cabinets, carpentry work, general repairs, renovations. Mike Dawson. 454-1214 days, 451-1646 evenings.

Need someone to water your plants while on holidays? Also shall transplant and prune. Home business greenhouse. Call the plant sitter. 488-1496.

Quality custom furniture, cabinets, shelving. 988-8549 evenings.

(Semi or Retired) Interested being with children. Ages are 4 to 5 years of age. 2 boys. Call 439-3531.

Aspen Languages School of Paris offers French and Italian classes at all levels and French literature class. Phone 435-4467.

Typing on word processor for all your normal and special needs. Unlimited storage for re-usable material—fast revision capabilities. Excellent for mailing lists, reports, etc. Call PDQ Words 452-7862.

Mature woman required weekdays starting September, to care for 10 month old girl. 433-2388.

Rototilling (42" cut) and levelling. 434-5596 evenings.

Good Neighbor Fence Company. Quality wood fences, patio decks, odd jobs. Free estimates. 439-1211, 433-6794.

Donnic Typing Services Ltd.—We have Word Processing Equipment. Eliminates re-proofing correct text. Ideal for theses, manuscripts, tables, etc. 2nd floor, 10444 Whyte Ave. 432-1419.

Medical secretary will type theses/term papers. Reasonable. Rush basis. Call Maureen 477-6126.

Experienced sitter wanted daily Monday-Friday 9:00 a.m. - 5:00 p.m. or to live in for July and August to help with five year old boy and one year old girl. 487-1542.

Exterior painting—Highly qualified, over ten years of experience, reasonable rates. 435-7157.

Bechstein grand piano 7½ ft., beautiful instrument, 95 years old, completely rebuilt. Refinished by one of Edmonton's finest piano rebuilders. Concert bench included. Must be seen and played. Offers over \$9,000 considered. 434-1334.

Wanted to rent: Single garage or shed for storage of wooden goods. Access needed several times weekly. 432-9252, Dave.

Responsible experienced couple available to house sit during 79/80 school term. Plants, animals welcome. 437-7817.

Landscape trees—large Alberta grown Scotch pine and Mugo pine in pots. Available on campus at very reasonable prices. Call Ken 435-0676 evenings.

Painting interior and exterior. Grad student, experienced, reasonable, neat. 988-8549.

Distilled water for sale, area of 77 Ave. 159 St. Your bottle, you pick up. \$1 gal. 487-8884 evenings.

This summer come camping in the Yukon and Alaska. Travel the Alaska Highway, pan for gold in Dawson City, hike in Mt. McKinley Park and sail the Inside Passage. 23 days \$645. For more information phone or write Canadian Camping Adventures, 202 1414 Kensington Road N.W. Calgary. T2N 3P9. 283-4500.



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436-0290

Inventory of On-Campus Activities
Related to Children During the
International Year of the Child

The purpose of this questionnaire is (a) to record activities taking place on campus that relate to the child, (b) to identify areas particularly focusing on the child, (c) to facilitate intellectual exchange on campus and beyond.

The results will be forthcoming in the form of a report which may be circulated to facilitate further contacts.

1. List courses that you are or will be teaching during the 1979 calendar year that are concerned with children. For each course indicate the nature and extent of the focus on the child.

Course No. & Title	Content (Nature)	Time (Extent)
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3. List previous and forthcoming publications in this area.

Author	Title	Where Published
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4. List current and forthcoming programs and demonstrations that will be offered in your department during the International Year of the Child; e.g. University programs that bring the child to the campus; University programs that involve children in the community; open seminars or lecture series; extension courses.

2. List previous and forthcoming research that concerns children.

Researcher	Topic	Granting Agency
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Please send any further information you have available and feel would be important to report. Any further information may be enclosed on an additional sheet.

Name:
Department:

Please return as soon as possible to:
Dr. Margaret Ellis
Department of Movement Education
G108 Education South
The University of Alberta
Edmonton, Alberta, T6G 2G5
Thank you for your help in this matter.